

Abstract

A system for redistributing a multiple input audio/video and data signals having a redistributing device equipped to receive signals in a multiple formats and redistribute a selected signal to a user's premises over conductors, preferably existing twisted-pair telephone wire. The redistributing device is in interactive communication with a communications interface located in the user's premises which receives user-input control signals and contains switching circuitry which routes the selected signal to the user's premises where it is received by the receiving unit such as a television receiver. A single redistributing device services an entire multi-user network from a common distribution point, and services multiple users independently. The system of the invention does not interfere with normal use of the telephone network, so users can interactively access services provided by the system and use the telephone at the same time. In one preferred embodiment the system of the invention dynamically allocates frequencies and modulation techniques to various output signals, to maximize spectral efficiency and minimize interference and cross-talk.